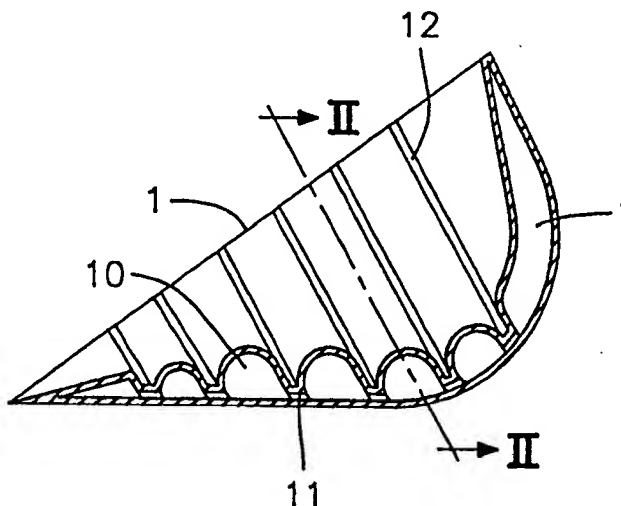


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : A43B 7/08</p>	<p>A1</p>	<p>(11) International Publication Number: WO 98/54995</p> <p>(43) International Publication Date: 10 December 1998 (10.12.98)</p>
<p>(21) International Application Number: PCT/US97/09742</p> <p>(22) International Filing Date: 4 June 1997 (04.06.97)</p> <p>(71) Applicant (for all designated States except US): IDEA INC. [US/US]; 400 Seventh Street, N.W., Washington, DC 20004 (US).</p> <p>(71)(72) Applicant and Inventor: HUANG, Ing-Jing [-/-]; 218 Cheng Kong 3rd Road, Nantou City (TW).</p> <p>(74) Agents: HOLMAN, John, Clarke et al.; Jacobson, Price, Holman & Stern, The Jenifer Building, 400 Seventh Street, N.W., Washington, DC 20004 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i></p>
<p>(54) Title: AIR CUSHION</p> <p>(57) Abstract</p> <p>A three-dimensional air cushion (1) having a sealed outer peripheral edge of a geometric shape. The projected area of the hollow interior (10) sealed by the outer peripheral edge is smaller than the upper surface area of the air cushion. Air chambers (10) are provided in an upper surface and a lower surface of the cushion, giving excellent buffering function. Two opposite sides of the cushion have a level higher than an intermediate portion to force an object in protect, or a shock source, to move to the center, with the shock energy converted into side support energy, thus obtaining great stability.</p> <div data-bbox="784 1129 1401 1631" data-label="Image">  </div>		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/09742**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) :A43B 7/08

US CL :36/3 B, 3 R

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 36/3 B, 3 R

Documentation searched other than minimum documentation to the extent that such documents are included in the : fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,606,806 A (O'DWYER) 04 March 1997, see entire document.	1-448
Y	US 5,537,762 A (WALTERS) 23 July 1996, see entire document.	1-448
Y	US 5,515,622 A (LEE) 14 May 1996, see entire document.	1-448
Y	US 5,353,525 A (GRIM) 11 October 1994, see entire document.	1-448

☐

Further documents are listed in the continuation of Box C.

☐

See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application basis cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

29 JULY 1997

Date of mailing of the international search report

24 SEP 1997

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

TERREL MORRIS

Telephone No. (703) 308-2351